

Ratio

- ANNOUNCER And the winner is... Ratiohead!
- CARL Hey, check out my new guitar. I put the first payment down today. Are you ready to rock?
- ABBEY Carl, Betty says that you gave her £2,000 after the battle of the bands final, but I only got £1,800.
- BETTY Yeah. What's going on?
- AL GEBRA I decided to step in before this kid became a one hit wonder.
- CARL Erm... are you from the record company?
- AL GEBRA Sure I had a few records alright, just most of 'em were handed to me by the cops.
- The name's Al. Private Detective.
- A maths crime was about to go down and I had to put the squeeze on a dirty ratio rat.
- CARL Wait! Wait I shared the prize money out in proportion to our ages. I got the most cos I'm the oldest, and I'm the lead singer.
- AL GEBRA I'd been doing some digging around. The band were aged 18, 20 and 22, which Carl had added together to make 60, and worked the whole thing out from there. Abbey was 18, so she got $\frac{18}{60}$ ths of the prize money. Betty was 20 and her cut was $\frac{20}{60}$ ths of the dough. So what about crooked Carl?
- CARL Well, I'm 22, so I got $\frac{22}{60}$ ths of the money.
- AL GEBRA We were gonna have to work this thing out backwards. If Abbey's 18 shares were £1,800 then one share of the winnings is 1,800 divided by 18, £100.
- And if the total of all their ages is 60, then the total prize money was 60 times that £100.
- BETTY / ABBEY Gasp! Six thousand pounds!

Bitesize

AL GEBRA Carl's cut was 22 times 100. 2,200 smackeroos. Kerrrching.

BETTY Hey, we played 12 songs in the whole competition, and I wrote 7 of them, Abbey wrote 3 and you Carl, only wrote 2.

AL GEBRA That was a ratio of 3:7:2. Dividing the £6,000 winnings by 12 would give them a share of £500 per song. Abbey would get 3 shares, Betty 7 and 'ratio rat' Carl would only get 2.

CARL But that means I won't be able to pay for my new guitar.

AL GEBRA Better luck next time Carl. Personally I'd have strung you up like a cheap Ukulele too!

Case closed.